

Title (en)
Thermal printer and method of controlling it

Title (de)
Thermodrucker und Steuerungsverfahren dafür

Title (fr)
Imprimante thermique et sa méthode de contrôle

Publication
EP 1070593 B1 20070926 (EN)

Application
EP 00115759 A 20000721

Priority
JP 20654099 A 19990721

Abstract (en)
[origin: EP1070593A2] A thermal printer for printing on a recording medium on which multiple colors can be selectively produced by exposing the recording medium to different temperatures, comprises: a heating element (11) for applying heat to the recording medium, a drive circuit (12) responsive to a drive signal having either an active state or an inactive state, and for driving the heating element (11) in response to said active state of said drive signal, a receiving circuit for sequentially receiving pixel data specifying, for successive print cycles, that either no color or one of said multiple colors is to be produced by means of said heating element (11), memory means (B1-B4) for storing the received pixel data and comprising a first memory part (B1, B2) for storing first-color pixel data among said received pixel data, said first-color pixel data specifying whether a first color is or is not to be produced by means of said heating element (11), and a second memory part (B3, B4) for storing second-color pixel data among said received pixel data, said second-color pixel data specifying whether a second color is or is not to be produced by means of said heating element (11), and a drive control circuit (21-28) for generating said drive signal based on the pixel data received for the current print cycle and pixel data received previously for one or more preceding print cycles and stored in said memory means (B1-B4). <IMAGE>

IPC 8 full level
B41J 2/355 (2006.01); **B41J 2/36** (2006.01)

CPC (source: EP KR US)
B41J 2/355 (2013.01 - KR); **B41J 2/3555** (2013.01 - EP US); **B41J 2/36** (2013.01 - EP US)

Cited by
CN112262046A; KR100826362B1; EP1754611A1; CN100453325C; EP1266762A3; KR100530648B1; US11662680B2; US6747683B2; US7802857B2; US8164608B2; US8393695B2; US8687031B2

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
EP 1070593 A2 20010124; EP 1070593 A3 20010328; EP 1070593 B1 20070926; AT E374109 T1 20071015; CN 1121606 C 20030917; CN 1282014 A 20010131; DE 60036515 D1 20071108; DE 60036515 T2 20080626; HK 1034788 A1 20011102; KR 100348038 B1 20020809; KR 20010015362 A 20010226; US 6476839 B1 20021105

DOCDB simple family (application)
EP 00115759 A 20000721; AT 00115759 T 20000721; CN 00121670 A 20000721; DE 60036515 T 20000721; HK 01105265 A 20010727; KR 20000041248 A 20000719; US 62178500 A 20000721